

Patent [19]

[11] Patent Number: 11348552

[45] Date of Patent: Dec. 21, 1999

[54] AIR CLEANER FOR VEHICLE

[21] Appl. No.: 10166522 JP10166522 JP

[22] Filed: Jun. 15, 1998

[51] Int. Cl.⁶ B60H00306 ; A61L00900; B01D05304; B01D05386; B01J03502

[57] ABSTRACT

PROBLEM TO BE SOLVED: To provide an air cleaner for a vehicle capable of deodorizing a cabin at the time of parking.

SOLUTION: A deodorizing filter 6 used to an air cleaner 1 is constituted by attaching a photocatalyst particle such as titanium oxide etc., to an adsorbent (e.g. an activated carbon filter) composed of porous material, and is arranged in the lower part of a spit hole 8 exposed to sunshine. A blower 4 for generating an air flow in the air cleaner 1 case 2 actuates a solar battery 3 as an electric power source. Consequently the blower 4 can be actuated even at the time of parking, to operate the air cleaner 1 similarly at the time of travel to purify a cabin inside. Activated carbon used to the filter 6 lowers the adsorption capacity of the activated carbon with the increase of the adsorption quantity of an odor component, but the adsorption capacity of the activated carbon can be recovered by the action of a photocatalyst. Since the photocatalyst is activated by receiving the ultraviolet ray of the sunshine, the filter 6 can be refreshed at the time of not only the travel of a vehicle but also even parking.
